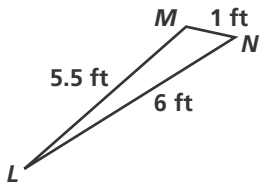
Name _____ Class _____ Date _____

# Practice 5-5

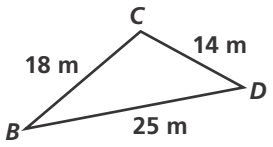
**Inequalities in Triangles**

**Determine the two largest angles in each triangle.**

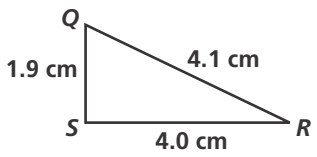
**1.**




**2.**




**3.**

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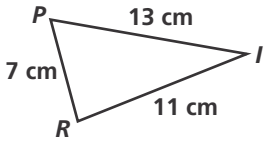


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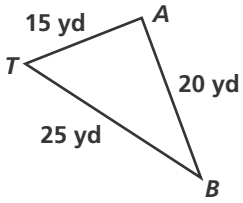
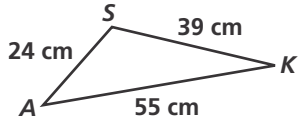



**6.**




**Can a triangle have sides with the given lengths? Explain.**

**7.** 4 m, 7 m, and 8 m

**8.** 6 m, 10 m, and 17 m

**9.** 4 in., 4 in., and 4 in.

**10.** 1 yd, 9 yd, and 9 yd

**11.** 11 m, 12 m, and 13 m

**12.** 18 ft, 20 ft, and 40 ft

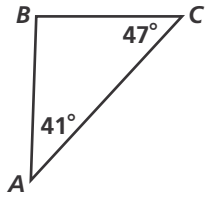
**13.** 1.2 cm, 2.6 cm, and 4.9 cm

**14.** $8\frac{1}{2}$ yd, $9\frac{1}{4}$ yd, and 18 yd

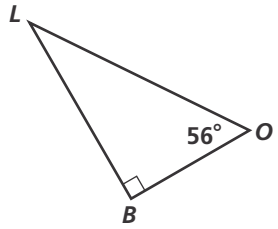
**15.** 2.5 m, 3.5 m, and 6 m

**List the sides of each triangle in order from shortest to longest.**

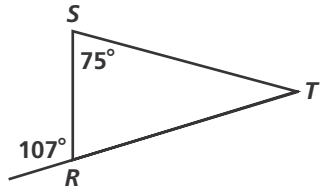
**16.**




**17.**

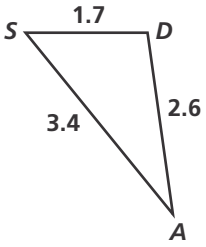



**18.**




**List the angles of each triangle in order from largest to smallest.**

**19.**

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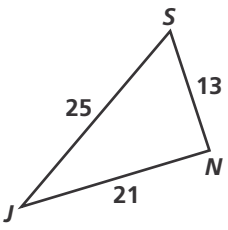
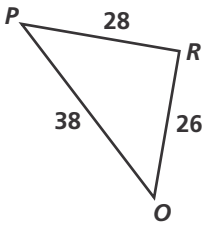



**21.**




**The lengths of two sides of a triangle are given. Describe the lengths possible for the third side.**

**22.** 4 in., 7 in.

**23.** 9 cm, 17 cm

**24.** 5 ft, 5 ft

**25.** 11 m, 20 m

**26.** 6 km, 8 km

**27.** 24 in., 37 in.